# MV-GC1002-V2

## 2-Channel Camera Link Frame Grabber



GEN<i>CAM

CAMERA Link

## Introduction

MV-GC1002-V2 Camera Link frame grabber supports Camera Link protocol, and supports Base, Medium, Full, and 80-bit configuration modes. It adopts 1 GB on-board memory to cache images. The frame grabber provides SDK interface and complies with Genlcam standard for secondary development.
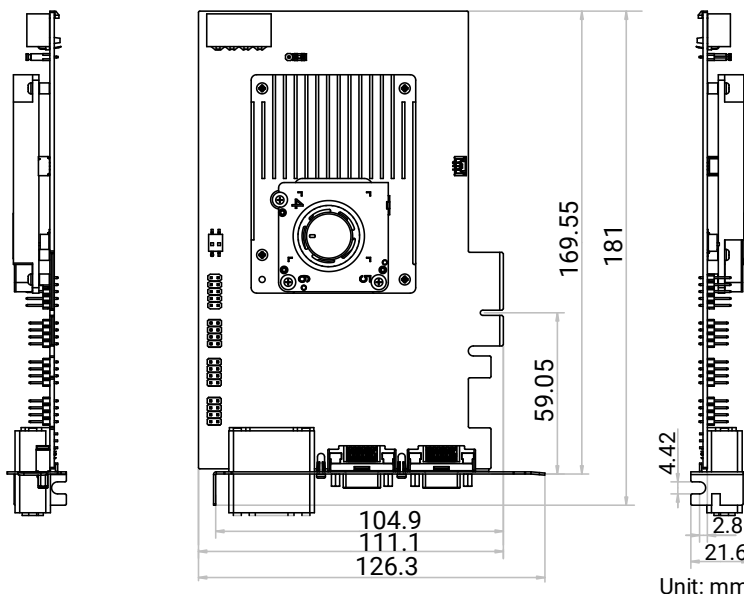
## Available Model

MV-GC1002-V2

## Dimension

## Key Feature

- Supports Camera Link protocol with two SDR connectors accessing up to 6.8 Gbps data transfer speed theoretically.
- Supports PoCL with each channel providing 4 W at most.
- Adopts multiple I/O connectors for input and output.
- Provides SDK and supports GenTL protocol for secondary development.
- Complies with Genlcam standard.





169.55

181

59.05

104.9

111.1

126.3

4.42

2.8

21.6

Unit: mm

# Specification

| Model | MV-GC1002-V2 |
|---|---|
| *Performance* | |
| Configuration mode | Base, Medium, Full, 80-bit |
| Pixel clock | 20 MHz to 85 MHz |
| *Memory* | |
| On-board memory | 1 GB DDR3-RAM |
| *Host interface* | |
| Interconnect | PCI-E gen2 × 4 |
| Delivery bandwidth | 1720 MB/s (max. transmission bandwidth) <br> 1600 MB/s (sustained transmission bandwidth) |
| Indicator | 1 |
| *Camera interface* | |
| Standard | Camera Link 2.1 |
| Interface | SDR × 2 |
| Power output | PoCL, each channel provides 4 W @ 12 VDC at most |
| Camera type supported | Camera Link industrial camera |
| Camera quantity supported | 2 at most |
| Camera connection speed | 6.8 Gbps |
| Stream | 2 |
| Stream indicator | 2 |
| *Processing feature* | |
| Pixel format | Mono 8/10/12/16 <br> Bayer 8/10/12/16 <br> RGB 8, BGR 8 |
| *GPIO* | |
| I/O Type | Configurable input/output × 11, compatible with single-ended/differential and support cascading <br> Baffle I/O: Line 0 to Line 6 support 3.3 VDC to 24 VDC input/output <br> Pin header I/O: Line 7 to Line 10 support 3.3 VDC to 12 VDC input, and 3.3 VDC output |
| Connector | DB15 male connector, 9-pin header (2.54 mm interval, 2 × 5, 10 pin hole) |
| *Electrical feature* | |
| Power consumption | Typ. 7 W (without PoCL) |
| *Mechanical* | |
| Dimension | 181 mm × 126.3 mm × 21.6 mm (7.1" × 5.0" × 0.9") |
| Temperature | Working temperature: 0 °C to 60 °C (32 °F to 140 °F) <br> Storage temperature: −20 °C to 70 °C (−4 °F to 158 °F) |
| Humidity | 10% RH to 95% RH (no condensation) |
| *General* | |
| Client software | MVS |
| Operating system | Windows 7/10/11, Ubuntu16.04 to 22.04 on Linux |
| Certification | CE, RoHS, UL |